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SITE SUMMARY AND RECOMMENDATION

The Orbis Products Corporation (Orbis) site (CERCLIS ID No. NJD010910099) is an inactive former aromatic chemical, pharmaceutical, organic intermediate, fragrance, and flavor manufacturing facility located at 55 Virginia Street, Newark, Essex County, New Jersey. The site is situated in an urban, mixed residential, commercial, and industrial area and is identified as Block 3773, Lot Nos. 15, 41, 43, and 53 on City of Newark Tax Maps. The site is bound to the north by the Dry Ice Corporation, McClellan Street, and a commercial area; to the east by railroad property and rail lines and a residential area; to the south by Virginia Street and Magruder Color Company; and to the west by the Magruder Color Company, a junk yard, Frelinghuysen Avenue, and a residential area. The Orbis site consists of six major structures as well as several smaller secondary buildings formerly used to house offices, laboratories, storage, and manufacturing facilities. Portions of the site are covered with asphalt and concrete foundations of demolished buildings, as well as asphalt pads formerly used to support ASTs. The remainder of the site is vegetated with scattered areas of exposed soil. The site is completely fenced; however, sections of the fence are relatively low in height and would likely allow access to trespassers. The nearest residence is located approximately 400 feet east of the site on the east side of the railroad right-of-way. The City of Newark is the current owner of the property, which was acquired through a foreclosure due to failure to pay taxes.

Orbis began operations at the site in 1922 (Lot No. 15) and acquired surrounding properties in 1943 (additional portions of Lot No. 15), 1946 (Lot Nos. 41 and 53), and 1978 (Lot No. 43). Original operations at the site included manufacturing of gums and powdered plant derivatives. In the late 1940s, Orbis became a subsidiary of Norda, Inc. Manufacturing at the site then consisted mainly of aromatic chemicals, pharmaceuticals, organic intermediates, fragrances, and flavors. The final products were produced through custom blending, distillation, and fractionation of batch-sized quantities of raw materials and intermediates. Available background information indicates that Orbis was also a subsidiary of Adron Corporation. Operations at the site became limited during 1983 with four employees present at the facility; as of 1995, there were two employees. Operations as of 1995 consisted of the decommissioning of the site and small batch operations. All operations at the facility ceased sometime after 1995. Other companies have also operated at portions of the site prior to those portions being acquired by Orbis. REO Chemical Company utilized Building 6 on the northern portion of the property as a warehouse in the 1930s and R. Conte Casket Manufacturing operated at the site from the 1940s through the 1960s. Derris, Inc., Supreme Art Co. & Kiddie's Gym Corp., and Air Reduction Chemical Manufacturers, Co., have also operated on portions of the site prior to be acquired by Orbis. Nu-Soils Inc., was identified in the Solid Waste Facility Directory as a recycling center located at 55 Virginia Street. The facility was identified as inactive. A Notice of Lease was signed by Orbis and SWTR on 27 February 1987, in which Orbis agreed to lease a portion of the site to SWTR for use as a solid waste transfer station and recycling center. However, it is unknown if SWTR actually conducted waste transfer and recycling activities at the site.

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Throughout the 1980s Orbis was cited several times by the NJDEP for waste storage violations including poor housekeeping, failure to submit a TSD facility annual report, storage of hazardous waste on site for more than 90 days without a permit, disposing of oil in the site's wastewater treatment plant holding tank, improper labeling of drums, and failure to classify and dispose of approximately 37,000 gallons of sludge in the holding tank. Orbis also received an NJDEP NOV for the following conditions: inadequate contingency plan including no written waste analysis plan; inadequate inspection schedule; inadequate inspection records; no documentation of annual training; failure to keep training records; failure to hold semi-annual drills; inadequate aisle space; no documentation of arrangements with local agencies; failure to request semi-annual fire inspection; incomplete listing in contingency plan; failure to submit contingency plan to local authorities; no closure plan; and failure to date hazardous waste containers. On 27 August 1985, an Administrative Order was issued by the NJDEP to Orbis concerning a violation of the Solid Waste Management Act.

A site inspection was conducted by the NJDEP on 26 July 1984 to substantiate the findings of a previous inspection which indicated that a hazardous situation existed on the site. Observations made during the inspection indicated the presence of stained soil, oil-saturated concrete below ASTs, a storm water holding tank containing sludge, drums containing residual liquid, and a dilapidated warehouse containing approximately 1,200 drums stacked three high. Many of the drums were leaking, corroded, and sitting in pools of liquid. Based upon the inspection, the NJDEP made the following recommendations: remove drums and place on pallets; sample, remove, properly dispose of on-site contaminated soil; remove, label and properly dispose of drums in the warehouse; install fire control equipment; make respirators and other safety equipment available; install water control measures; and that oil and sludge be removed from the storm water holding tank, analyzed for hazardous characteristics, and properly disposed. A follow-up inspection was performed by the NJDEP on 1 August 1984 to determine if any corrective action had been taken since the previous inspection. Observations made during the inspection indicated that some progress had been made toward site cleanup. Ninety percent of the drums that had been placed directly on the ground surface were placed on pallets and rearranged so there could be no water-enhancing chemical reactions; those not on pallets were on plastic. Stained soil had not been removed but covered with sand to absorb the oil. The exterior of the drum storage warehouse had been cleaned, although interior conditions remained the same. Conditions in the holding tank were not addressed. As a result of the inspection the NJDEP informed Orbis that it would issue an NOV for storing hazardous waste on site without a permit beyond the 90-day limit; disposing of oil in the holding tank, which in turn is burned in the plant's furnace without a permit; and improper labeling of drums.

A 1989 PA report prepared by Region II FIT contract gave the Orbis site a medium priority for further action recommendation based upon previous waste disposal activities and the results of existing analytical data that indicated soil contamination.

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SITE SUMMARY AND RECOMMENDATION

Envirotactics, Inc., Manasquan, New Jersey was retained by the City of Newark to perform a PA, Site Investigation, RI, and to develop a RAW at the Orbis site. Analytical results of surface soil, subsurface soil, and groundwater samples collected from on-site monitoring wells and 21 AOCs identified throughout the site from October 2000 through February 2002 , indicated elevated levels (i.e., above the NJDEP NRDCSCC, IGWSCC, and GWQS) of VOCs in both the on-site soil and groundwater. VOC compounds detected in both on-site soil and groundwater include benzene, toluene, trichloroethylene TCE, PCE, chlorobenzene, and carbon tetrachloride. Elevated levels of SVOCs, pesticides, PCBs, and metals were also detected in on-site soil samples. The RAW recommended soil capping at AOCs that did not appear to pose a threat to groundwater. Soil excavation and tank removal were proposed for the remaining AOCs where the concentrations and types of contaminants present posed a threat to groundwater. Soil excavation, disposal of contaminated groundwater, and natural remediation, including the addition of ORC and bacteria to soil excavation areas were proposed as groundwater remediation measures.

On 20 September 2002, a redevelopment firm known as McClellan Street Urban Renewal signed a MOA with the NJDEP, and submitted an approved RAW to remediate and redevelop the Orbis site for commercial use. According to a McClellan Street Urban Renewal official, remediation at the site is scheduled to begin sometime in early 2004.

On 24 October 2002, the Region II SAT conducted an off-site reconnaissance of the Orbis site. Due to a locked front gate, Region II SAT could access the interior of the site. Observations made by Region II SAT indicate that the site is inactive. There are no residences, schools, or day care centers within 200 feet of the site boundaries. On-site structures appear to be dilapidated, with a large portion of the windows broken. Observations made by Region II SAT confirm available background information that indicates that there is no overland path to surface water. Runoff from the site is likely to be intercepted by storm drains on adjacent streets. Storm water from this area is treated by the PVSC and discharged to Upper New York Bay. Therefore, the likelihood of establishing a site-attributable impact to surface water and associated sensitive environments is low.

Potential receptors of contamination include approximately 22,508 people who are served by PSWs located between 3 and 4 miles west of the site. However, the Orbis site is situated within an urban industrial area; other potential sources of contamination are located in the vicinity. Therefore, establishing site-attributable actual contamination of these receptors unlikely.

An HRS SUPERscreen (version 1.0) analysis of the Orbis site was performed on the basis of an observed release to groundwater. Validated groundwater analytical data of groundwater samples collected by Envirotactics in February 2002 indicate an observed release of site-attributable VOCs to shallow on-site monitoring wells screened in the overburden. The RAW report prepared by Envirotactics recommended soil capping at AOCs that did not appear to pose a threat to groundwater. Soil excavation and tank removal were proposed for the remaining AOCs where the

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SITE SUMMARY AND RECOMMENDATION

concentrations and types of contaminants present in the soil (i.e., VOCs) posed a threat to groundwater. Soil excavation, disposal of contaminated groundwater, and natural remediation, including the addition of ORC and bacteria to soil excavation areas were proposed as groundwater remediation measures.

Potential targets of groundwater contamination include approximately 22,508 people who are served by PSWs between 3 and 4 miles west of the site. However, the Orbis site is situated within an urban industrial area. Other potential sources of contamination are located in the vicinity. Therefore, establishing site-attributable actual contamination of these receptors is unlikely. In addition, an overland path to surface water does not exist, as runoff from the site is likely to be intercepted by storm sewer drains on adjacent streets. Storm water from the Newark area is treated by the PVSC and discharged to Upper New York Bay. Therefore, the likelihood of establishing a site-attributable impact to surface water and associated sensitive environments is low. There are no residences, schools, or day care centers on or within 200 feet of the site. The NJDEP has entered into a MOA with a redevelopment firm to remediate and redevelop the site for commercial use. The overall site score is **17.92**, which is below the score required for placement on the NPL (i.e., 28.5).

Based on an evaluation of the above conditions a recommendation of **NO FURTHER REMEDIAL ACTION PLANNED (NFRAP)** is given to the Orbis Products Corporation site.

SOURCE INFORMATION

5/13/2003 10:08:22AM
3/4/2003 3:01:37PM Scott Snyder

Session 3 - Orbis Products Corporation -- Rev - Site Score: 17.92

DocRec Comments
-

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Source 1 - Contaminated Soil

Latitude	Longitude
40 41 17.3	074 12 09.5

Type: Contaminated Soil / N/A

Lowest Depth of Contamination (ft): 12.50

Is Tier A Adequately Determined? No
Is Tier B Adequately Determined? No

Description:
Location:

Source HWQ: 6.38

Constituents (Tier A) Assigned Value:
WasteStream (Tier B) Assigned Value:

Volume (Tier C): Assigned Value:
Volume Ref:

Area (Tier D): 216,990.00sq ft Assigned Value: 6.38
Area Ref:

Containment

GW	10	Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).
SWOL	10	No evidence of hazardous substance migration from source area and: Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.
Gas	10	All situations except those specifically listed in HRS Table 6-3.
Particulate	10	All situations except those specifically listed in HRS Table 6-9.

Evidence 1 - S-124A 8/2/2001

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 4.00
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
000071-43-2	Benzene	77,000.00 ug/kg	7,760.00 ug/kg	D	X				

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Evidence 2 - S-143A 1/23/2002

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 7.00
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
000108-88-3	Toluene	50,000.00 ug/kg	1,600.00 ug/kg	D	X				

Evidence 3 - S-87 7/7/2001

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 12.50
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
000127-18-4	Tetrachloroethylene	57,000.00 ug/kg	762.00 ug/kg		X				

Evidence 4 - S-120 8/2/2001

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 7.00
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
000067-66-3	Chloroform	21,000.00 ug/kg	742.00 ug/kg	D	X				

Evidence 5 - S-71 6/29/2001

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 2.50
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
000056-23-5	Carbon tetrachloride	7,470.00 ug/kg	8,720.00 ug/kg	J	X				

Evidence 6 - S-106 7/16/2001
Purpose: Analytical Sample
Type: Sample

This is a BACKGROUND sample
Is Sample Filtered? No
Depth: 4.00
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
000056-23-5	Carbon tetrachloride	841.00 ug/kg	841.00 ug/kg	U	X				
000067-66-3	Chloroform	841.00 ug/kg	841.00 ug/kg	U	X				
000071-43-2	Benzene	841.00 ug/kg	841.00 ug/kg	U	X				
000108-88-3	Toluene	841.00 ug/kg	841.00 ug/kg	U	X				
000127-18-4	Tetrachloroethylene	841.00 ug/kg	841.00 ug/kg	U	X				
001336-36-3	PCBs	2,030:00 ug/kg	37.60 ug/kg	J	X				

Evidence 7 - T1 10/27/2000
Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 0.50
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
001336-36-3	PCBs	11,000.00 ug/kg	179.00 ug/kg	D	X				

Source 2 - Concrete Holding Tank Latitude Longitude

Type: Tanks / Buried-No biogas release

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Lowest Depth of Contamination (ft): 6.00

Is Tier A Adequately Determined? No
Is Tier B Adequately Determined? No

Description:
Location:

Source HWQ: 80.00

Constituents (Tier A) Assigned Value:
WasteStream (Tier B) Assigned Value:

Volume (Tier C): 40,000.00gal Assigned Value: 80.00
Volume Ref:

Area (Tier D): Assigned Value: 0.00
Area Ref:

Containment

GW	10	Tank and ancillary equipment not provided with secondary containment (e.g., liner under tank area, vault system, double wall).
SWOL	10	No evidence of hazardous substance migration from source area and: Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.
Gas	7	Uncontaminated soil cover >3 feet: Source substantially devoid of vegetation.
Particulate	7	Uncontaminated soil cover >3 feet: Source substantially devoid of vegetation.

Evidence 1 - S-2

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 3.00
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
000050-32-8	Benzo(a)pyrene	15,000.00 ug/kg	9,200.00 ug/kg	D	X				
000053-70-3	Dibenz(a,h)anthracene	2,100.00 ug/kg	460.00 ug/kg		X				
000056-55-3	Benz(a)anthracene	18,000.00 ug/kg	9,200.00 ug/kg	D	X				
000117-81-7	Bis (2-ethylhexyl) phthalate	40,000.00 ug/kg	9,200.00 ug/kg	D	X				
000193-39-5	Indeno(1,2,3-cd)pyrene	3,800.00 ug/kg	460.00 ug/kg		X				

000205-99-2	Benzo(b)fluoranthene	20,000.00	ug/kg	9,200.00	ug/kg	D	X
000207-08-9	Benzo(k)fluoranthene	11,000.00	ug/kg	9,200.00	ug/kg	D	X
000218-01-9	Chrysene	17,000.00	ug/kg	9,200.00	ug/kg	D	X
007439-92-1	Lead	587.00	mg/kg	17.70	mg/kg		X

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Evidence 2 - S45

Purpose: Analytical Sample
Type: Sample

This is a RELEASE sample
Is Sample Filtered? No
Depth: 6.50
Lat: 0.00 Long: 0.00

CAS_Number	Chemical_Name	Quantity		Quantitation Limit		Qualfr	Man Made	Ubiq	Liquid	Neigh	Reference
000071-43-2	Benzene	23,000.00	ug/kg	770.00	ug/kg						
000108-90-7	Chlorobenzene	4,000.00	ug/kg	770.00	ug/kg						

Session 3 - Orbis Products Corporation -- Rev - Site Score: 17.92 **Pathway Score:** 16.32

DocRec Comments
3.1.1.2.2 Background Concentration Samples

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Net Precipitation: 6
Net Precip Ref:

Strata 1 - Glacial Deposits
This is a Non-Karst aquifer

Hydraulic Conductivity: 1.0E-006

Depth from 0.00 ft to 35.00 ft

Wellhead Protection Area Factor Value: 5 - Designated Wellhead Protection Area is within the target distance limit
Wellhead Reference:

Resources:
Resources Well Name:
Resources Reference:

Well Groups:

Aquifer type	Distance Range	Num of Wells	Population Served
NON-KARST	Greater than 3 to 4	7.00	22,028.00

Individual Wells:

Well 1 - Monitoring Well 5 -- Monitoring
Latitude: Longitude:
Screening interval from 2.00 to 18.00 ft bgs
Distance from Source : 0.00
Population Served:

Sample 1 - MW-5 2/4/2002
Depth: 15.00 ft bgs
Type: RELEASE
Filtered? No
Reference:
Notes:

CAS_Number	Chemname	Quantity		Quantitation Limit		Qualfr	DirQb	Liq	ManMd	Ubq	Neigh	Reference
000095-50-1	Dichlorobenzene, 1,2-	1,100.00	ug/L	150.00	ug/L				X			
000108-88-3	Toluene	32,000.00	ug/L	220.00	ug/L				X			
000127-18-4	Tetrachloroethylene	1,370.00	ug/L	220.00	ug/L				X			

Well 2 - Monitoring Well 16 -- Monitoring

Latitude: Longitude:
Screening interval from 2.00 to 18.00 ft bgs
Distance from Source : 0.00
Population Served:

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Sample 1 - MW-16 2/4/2002
Depth: 15.00 ft bgs
Type: RELEASE
Filtered? No
Reference:
Notes:

CAS_Number	Chemname	Quantity	Quantitation Limit	Qualfr	DirOb	Liq	ManMd	Ubq	Neigh	Reference
000071-43-2	Benzene	298,000.00 ug/L	650.00 ug/L				X			

Well 3 - Monitoring Well 14 – Monitoring
Latitude: Longitude:
Screening interval from 2.00 to 18.00 ft bgs
Distance from Source : 0.00
Population Served:

Sample 1 - MW-14 2/4/2002
Depth: 15.00 ft bgs
Type: RELEASE
Filtered? No
Reference:
Notes:

CAS_Number	Chemname	Quantity	Quantitation Limit	Qualfr	DirOb	Liq	ManMd	Ubq	Neigh	Reference
000079-01-6	Trichloroethylene	1,680.00 ug/L	9.50 ug/L				X			

Well 4 - Monitoring Well 3 -- Monitoring
Latitude: Longitude:
Screening interval from 2.00 to 18.00 ft bgs
Distance from Source : 0.00
Population Served:

Sample 1 - MW-3 2/4/2002
Depth: 15.00 ft bgs
Type: RELEASE
Filtered? No
Reference:
Notes:

CAS_Number	Chemname	Quantity	Quantitation Limit	Qualfr	DirOb	Liq	ManMd	Ubq	Neigh	Reference
000108-90-7	Chlorobenzene	1,040.00 ug/L	800.00 ug/L				X			

Well 5 - Monitoring Well 15 – Monitoring

Latitude: Longitude:
Screening interval from 2.00 to 18.00 ft bgs
Distance from Source : 0.01
Population Served:

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Sample 1 - MW-15 2/4/2002

Depth: 15.00 ft bgs
Type: BACKGROUND
Filtered? No
Reference:
Notes:

CAS_Number	Chemname	Quantity	Quantitation Limit	Qualfr	DirOb	Liq	ManMd	Ubq	Neigh	Reference
000071-43-2	Benzene	0.13 ug/L	0.13 ug/L	U		X	X			
000079-01-6	Trichloroethylene	0.19 ug/L	0.19 ug/L	U		X	X			
000095-50-1	Dichlorobenzene, 1,2-	0.15 ug/L	0.15 ug/L	U		X	X			
000108-88-3	Toluene	0.22 ug/L	0.22 ug/L	U		X	X			
000108-90-7	Chlorobenzene	0.16 ug/L	0.16 ug/L	U		X	X			
000127-18-4	Tetrachloroethylene	0.22 ug/L	0.22 ug/L	U		X	X			

Strata 2 - Brunswick Formation

This is a Non-Karst aquifer

This is inter-connected with the aquifer directly above it.
Hydraulic Conductivity: 1.0E-006

Depth from 35.00 ft to 6,000.00 ft

Wellhead Protection Area Factor Value: 5 - Designated Wellhead Protection Area is within the target distance limit
Wellhead Reference:

Resources:
Resources Well Name:
Resources Reference:

Well Groups:

Aquifer type	Distance Range	Num of Wells	Population Served
NON-KARST	Greater than 3 to 4	1.00	480.00

Individual Wells:

SOIL EXPOSURE PATHWAY DATA

5/13/2003 10:07:49AM
3/4/2003 3:01:37PM Scott Snyder

Session 3 - Orbis Products Corporation -- Rev - Site Score: 17.92 **Pathway Score:** 0.00

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Area A Contaminated Soil

Size of AOC for RESIDENT population consideration: sq ft
Size of AOC for NEARBY population consideration: 216,990.00 sq ft

Attractiveness: 5 - Surrounded by maintained fence or combination of maintained fence and natural barriers

Resource Use: -

Sensitive Environments

Sensitive Environment	Sensitive Env. Value	Reference
-	-	

Selected Sources

Source
-

Resident Population

Population	Distance (ft)	On Property	Source ID - Sample	Population Reference
			-	

Nearby Population

Population	Distance Category	Population Reference
1,117.00 RESIDENTS	Greater than 0 to 1/4	
7,414.00 RESIDENTS	Greater than 1/4 to 1/2	
15,962.00 RESIDENTS	Greater than 1/2 to 1	

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DocRec Comments

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Particulate Migration Potential Factor Value: 6
Particulate Mobility Factor Value: 0.00

Source 1 - Contaminated Soil

Type: Contaminated Soil / N/A
Source HWQ: 6.382E+000

Containment

Gas - 10 All situations except those specifically listed in HRS Table 6-3.
Particulate - 10 All situations except those specifically listed in HRS Table 6-9.

Sample -

Observation Type:
Height: Distance From Source (mi):
Wind Direction: Interval:
Latitude: Longitude:

Reference:
Notes:

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	DirOb	ManMd	Ubq	Neigh	Reference

Targets

Population

Distance Category	Level_of_Concen	Population	Dist to Near Ind	Reference
On Source	POT	0.00		
Greater than 0 to 1/4	POT	1,117.00		
Greater than 1/4 to 1/2	POT	7,414.00		
Greater than 1/2 to 1	POT	15,962.00		
Greater than 1 to 2	POT	76,484.00		
Greater than 2 to 3	POT	147,931.00		
Greater than 3 to 4	POT	173,834.00		
Greater than 4	N/A			

Wetlands

Distance Category	Level of Concentration	Wetland Acres	Reference
On Source	POT	0.00	
Greater than 0 to 1/4	POT	0.00	
Greater than 1/4 to 1/2	POT	0.00	
Greater than 1/2 to 1	POT	2.10	
Greater than 1 to 2	POT	47.00	
Greater than 2 to 3	POT	74.90	
Greater than 3 to 4	POT	295.60	
Greater than 4	N/A		

Resources

Resource	Reference
-	

Sensitive Environments

Sensitive Environment	Dist from Src	Rating	Senv Env Reference
1 - American Burying Beetle	3.90	75 - Habitat known to be used by Federal designated or proposed endangered/threatened species	
2 - Savannah Sparrow	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
3 - Triangle Floater	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
4 - Checkered White	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
5 - Least Tern	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
6 - Green Floater	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
7 - Coastal Heron Rookery	3.90	25 - Particular small areas important to maintenance of unique biotic communities	

Source 2 - Concrete Holding Tank

Type: Tanks / Buried-No biogas release
Source HWQ: 8.000E+001

Containment

Gas - 7 Uncontaminated soil cover >3 feet: Source substantially devoid of vegetation.
Particulate - 7 Uncontaminated soil cover >3 feet: Source substantially devoid of vegetation.

Sample -

Observation Type:
Height: Distance From Source (mi):
Wind Direction: Interval:
Latitude: Longitude:

Reference:
Notes:

CAS_Number	Chemical_Name	Quantity	Quantitation Limit	Qualfr	DirOb	ManMd	Ubq	Neigh	Reference

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Targets

Population

Distance Category	Level_of_Concen	Population	Dist to Near Ind	Reference
On Source	POT			
Greater than 0 to 1/4	POT	1,117.00		
Greater than 1/4 to 1/2	POT	7,414.00		
Greater than 1/2 to 1	POT	15,962.00		
Greater than 1 to 2	POT	76,484.00		
Greater than 2 to 3	POT	147,931.00		
Greater than 3 to 4	POT	173,834.00		
Greater than 4	N/A			

Wetlands

Distance Category	Level of Concentration	Wetland_Acres	Reference
On Source	POT	0.00	
Greater than 0 to 1/4	POT	0.00	
Greater than 1/4 to 1/2	POT	0.00	
Greater than 1/2 to 1	POT	2.10	
Greater than 1 to 2	POT	47.00	
Greater than 2 to 3	POT	74.90	
Greater than 3 to 4	POT	295.60	
Greater than 4	N/A		

Resources

Resource	Reference
-	

Sensitive Environments

Sensitive Environment	Dist from Src	Rating	Senv Env Reference
1 - American Burying Beetle	3.90	75 - Habitat known to be used by Federal designated or proposed endangered/threatened species	
2 - Savannah Sparrow	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
3 - Triangle Floater	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
4 - Checkered White	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
5 - Least Tern	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
6 - Green Floater	3.90	50 - Habitat known to be used by State designated endangered or threatened species	
7 - Coastal Heron Rookery	3.90	25 - Particular small areas important to maintenance of unique biotic communities	